

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	
Springer <i>et al.</i>	:	
Serial No. 07/515,478	:	Art Unit: 1813
Filed: April 27, 1990	:	Examiner: Cunningham
For: Intercellular Adhesion	:	Atty Docket: 1011.0040008/RAM
Molecules And Their	:	
Binding Ligands	:	

Declaration Under 37 C.F.R. § 1.132

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

The undersigned Timothy A. Springer, Robert Rothlein, Steven D. Marlin, and Michael Dustin state and declare that:

1. We are the sole inventors of the invention described and claimed in U.S. Serial No. 07/515,478, filed April 27, 1990, which is a continuation-in-part of 07/456,647, filed December 22, 1989, which is a continuation-in-part of 07/373,882, filed June 20, 1989, which is a continuation-in-part of 07/324,481, filed March 16, 1989, which is a continuation in part of 07/250,446, filed on September 28, 1988, which is continuation-in-part of 07/189,815, filed on May 3, 1988, which is a continuation-in-part of 07/155,943, filed on February 16, 1988, which is a continuation-in-part of 07/115,798, filed on November 2, 1987, which is a continuation-in-part of 07/045,963, filed May 4, 1987.

2. Michael Dustin, Robert Rothlein and Timothy Springer are also three of the co-authors of the paper entitled "Induction By IL 1 And Interferon- γ Tissue Distribution, Biochemistry, And Function Of A Natural Adherence Molecules (ICAM-1)" which was published in the *Journal of Immunology* 173:245-254 (1986).

3. Atul K. Bhan and Charles A. Dinarello are also named as co-authors of the paper described in number 2 above.

4. As to any inventive subject matter of the above captioned application which is disclosed in the article described in number 2 above, neither Atul K. Bhan or Charles A. Dinarello are inventors, nor are they joint inventors, of this material.

5. Atul K. Bhan was named as co-author of the paper described in number 2 above because he provided technical support in performing the histochemical studies which were designed and suggested by the inventors of the present application. In providing technical support in the field of histology, Atul K. Bhan did not contribute to the conception of the method disclosed and claimed in the present invention but contributed to the level of co-authorship of the *J. Immunology* paper.

6. Charles A. Dinarello was named as co-author of the paper described in number 2 above, because he provided purified interleukin 1. By providing purified interleukin 1, Charles A. Dinarello did not contribute to the conception of the method

disclosed and claimed in the present application but contributed to the level of co-authorship of the *J. Immunology* paper.

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereupon.

Respectfully submitted,

Date: 5-3-93

Timothy A. Springer

Date: _____

Robert Rothlein

Date: _____

Steven D. Marlin

Date: _____

Michael Dustin

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	
Springer <i>et al.</i>	:	
Serial No. 07/515,478	:	Art Unit: 1813
Filed: April 27, 1990	:	Examiner: Cunningham
For: Intercellular Adhesion Molecules And Their Binding Ligands	:	Atty Docket: 1011.0040008/RAM

Declaration Under 37 C.F.R. § 1.132

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

The undersigned Timothy A. Springer, Robert Rothlein, Steven D. Marlin, and Michael Dustin state and declare that:

1. We are the sole inventors of the invention described and claimed in U.S. Serial No. 07/515,478, filed April 27, 1990, which is a continuation-in-part of 07/456,647, filed December 22, 1989, which is a continuation-in-part of 07/373,882, filed June 20, 1989, which is a continuation-in-part of 07/324,481, filed March 16, 1989, which is a continuation in part of 07/250,446, filed on September 28, 1988, which is continuation-in-part of 07/189,815, filed on May 3, 1988, which is a continuation-in-part of 07/155,943, filed on February 16, 1988, which is a continuation-in-part of 07/115,798, filed on November 2, 1987, which is a continuation-in-part of 07/045,963, filed May 4, 1987.

2. Michael Dustin, Robert Rothlein and Timothy Springer are also three of the co-authors of the paper entitled "Induction By IL 1 And Interferon- γ Tissue Distribution, Biochemistry, And Function Of A Natural Adherence Molecules (ICAM-1)" which was published in the *Journal of Immunology* 173:245-254 (1986).

3. Atul K. Bhan and Charles A. Dinarello are also named as co-authors of the paper described in number 2 above.

4. As to any inventive subject matter of the above captioned application which is disclosed in the article described in number 2 above, neither Atul K. Bhan or Charles A. Dinarello are inventors, nor are they joint inventors, of this material.

5. Atul K. Bhan was named as co-author of the paper described in number 2 above because he provided technical support in performing the histochemical studies which were designed and suggested by the inventors of the present application. In providing technical support in the field of histology, Atul K. Bhan did not contribute to the conception of the method disclosed and claimed in the present invention but contributed to the level of co-authorship of the *J. Immunology* paper.

6. Charles A. Dinarello was named as co-author of the paper described in number 2 above, because he provided purified interleukin 1. By providing purified interleukin 1, Charles A. Dinarello did not contribute to the conception of the method

disclosed and claimed in the present application but contributed to the level of co-authorship of the *J. Immunology* paper.

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereupon.

Respectfully submitted,

Date: _____

Timothy A. Springer

Date: May 4, 1993


Robert Rothlein

Date: MAY 3 1993


Steven D. Marlin

Date: _____

Michael Dustin

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	:	
Springer <i>et al.</i>	:	
Serial No. 07/515,478	:	Art Unit: 1813
Filed: April 27, 1990	:	Examiner: Cunningham
For: Intercellular Adhesion Molecules And Their Binding Ligands	:	Atty Docket: 1011.0040008/RAM

Declaration Under 37 C.F.R. § 1.132

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

Sir:

The undersigned Timothy A. Springer, Robert Rothlein, Steven D. Marlin, and Michael Dustin state and declare that:

1. We are the sole inventors of the invention described and claimed in U.S. Serial No. 07/515,478, filed April 27, 1990, which is a continuation-in-part of 07/456,647, filed December 22, 1989, which is a continuation-in-part of 07/373,882, filed June 20, 1989, which is a continuation-in-part of 07/324,481, filed March 16, 1989, which is a continuation in part of 07/250,446, filed on September 28, 1988, which is continuation-in-part of 07/189,815, filed on May 3, 1988, which is a continuation-in-part of 07/155,943, filed on February 16, 1988, which is a continuation-in-part of 07/115,798, filed on November 2, 1987, which is a continuation-in-part of 07/045,963, filed May 4, 1987.

2. Michael Dustin, Robert Rothlein and Timothy Springer are also three of the co-authors of the paper entitled "Induction By IL 1 And Interferon- γ Tissue Distribution, Biochemistry, And Function Of A Natural Adherence Molecules (ICAM-1)" which was published in the *Journal of Immunology* 173:245-254 (1986).

3. Atul K. Bhan and Charles A. Dinarello are also named as co-authors of the paper described in number 2 above.

4. As to any inventive subject matter of the above captioned application which is disclosed in the article described in number 2 above, neither Atul K. Bhan or Charles A. Dinarello are inventors, nor are they joint inventors, of this material.

5. Atul K. Bhan was named as co-author of the paper described in number 2 above because he provided technical support in performing the histochemical studies which were designed and suggested by the inventors of the present application. In providing technical support in the field of histology, Atul K. Bhan did not contribute to the conception of the method disclosed and claimed in the present invention but contributed to the level of co-authorship of the *J. Immunology* paper.

6. Charles A. Dinarello was named as co-author of the paper described in number 2 above, because he provided purified interleukin 1. By providing purified interleukin 1, Charles A. Dinarello did not contribute to the conception of the method

disclosed and claimed in the present application but contributed to the level of co-authorship of the *J. Immunology* paper.

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereupon.

Respectfully submitted,

Date: _____

Timothy A. Springer

Date: _____

Robert Rothlein

Date: _____

Steven D. Marlin

Date: April 30, 1993

Michael L. Dustin
Michael Dustin